



# RSP100DC 100W Monocrystalline Solar Panel

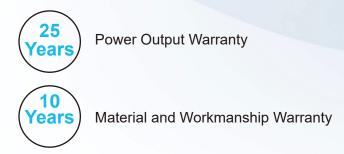
#### **Key Features**

The Renogy 100 Watt 12 Volt Monocrystalline Solar Panel features a sleek and durable frame design. This solar panel uses high-efficiency monocrystalline silicon solar cells and frame corner supports for outdoor protection.

- High module conversion efficiency
- Top ranked PTC rating
- Quick and inexpensive mounting
- 100% EL testing on all Renogy modules
- No hot spots guaranteed

#### **Potential Uses**

Renogy Solar Panels have applications in residential solar power arrays,water pumping systems, signaling systems, and plenty of other applications. The Renogy 100 Watt solar panel offers a feasible off-grid renewable energy solution for rooftop, RV, boat, and outdoor power systems.



# **RSP100DC** 100W Monocrystalline Solar Panel

### **Electrical Data**

Maximum Power at STC*	100 W
Optimum Operating Voltage (V <sub>mp</sub> )	19.97 V
Optimum Operating Current (Imp)	5.01 A
Open Circuit Voltage (V₀)	22.79 V
Short Circuit Voltage (Isc)	5.31 A
Module Efficiency	20.0 %
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	15 A

## **Thermal Characteristics**

OperatingTemp. Range	-40°C - 85°C(-4	0°F - 185°F)
Nominal Operating Cell Ten	nerature (NOCT)	47±2°C
Temperature Coefficient of	Pmax	-0.32%/°C
Temperature Coefficient of	Voc	-0.26%/°C
Temperature Coefficient of	lsc	0.046%/°C

#### **Junction Box**

**Module Diagram** 

IP Rating	IP 65
Diode Type	15SQ045
Number of Diodes	2 Diode(s)
Output Cables	14 AWG 600mm (23.6 in)

## **Mechanical Data**

Solar Cell Type	Monocrystalline (7.2 x 2.9 in)
Number of Cells	33 (3 x 11)
Dimensions	865 x 578 x 30 mm(34.1x22.8x1.2in)
Weight	5.9 kg(13.0 lbs)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	Solar Connectors
Fire Performance	Туре 1

## Solar Connectors

Rated Current	22A
Maximum Voltage	1000V DC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°C - 90°C(-40°F - 194°F)
IP Rating	IP 65

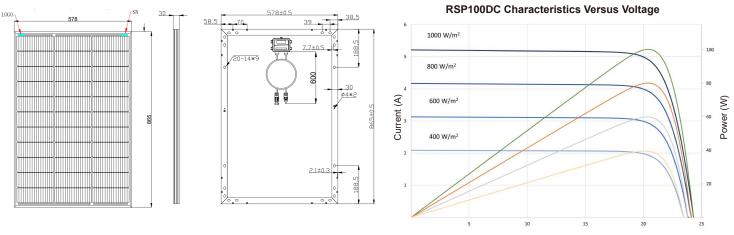
### Certifications

CE EN IEC61730 EN IEC61215



ISO 9001: Quality Management System

## IV-Curve



Voltage (V)

\*All specifications and data described in this data sheet are tested under Standard Test Conditions (STC - Irradiance: 1000W/m<sup>2</sup>, Temperature: 25°C, Air Mass: 1.5) and may deviate marginally from actual values. Renogy and any of its affiliates has reserved the right to make any modifications to the information on this data sheet without notice. It is our goal to supply our customers with the most recent information regarding our products. These data sheets can be found in the downloads section of our website, www.renogy.com